## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

Claim 1 (Currently Amended): A process for producing <u>a foamable crosslinked</u> polymer[[s]], comprising:

polymerizing a mixture comprising

- (A) 30-70 parts by weight of methacrylic acid,
  30-60 parts by weight of methacrylonitrile,
  0-30 parts by weight of other monomers having vinyl unsaturation,
- (B) 0.01-[[15]] 4.99 parts by weight of tert-butyl methacrylate,
- (C) 0.01-10 parts by weight of blowing agent,
- (D) 0.01-10 parts by weight of crosslinking agent,
- (E) 0.01 to 2 parts by weight of polymerization initiators, and
- (F) 0 to 20 parts by weight of conventional additives

in bulk to give a polymer in the form of a sheet;

wherein said sheet is optionally subjected to the following treatment:

heat-conditioning and then foaming at temperatures of from 150 to 250°C.

Claim 2 (Canceled):

Claim 3 (Currently Amended): A foamable crosslinked polymer, comprising:

- (A) 30-70 parts by weight of methacrylic acid,
  - 30-60 parts by weight of methacrylonitrile,
  - 0-30 parts by weight of other monomers having vinyl unsaturation,

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(B) 0.01-[[15]] 4.99 parts by weight of tert-butyl methacrylate,

(C) 0.01-10 parts by weight of blowing agent,

(D) 0.01-10 parts by weight of crosslinking agent,

(E) 0.01 to 2 parts by weight of polymerization initiators and

(F) 0 to 20 parts by weight of conventional additives.

Claim 4 (Canceled):

Claim 5 (Previously Presented): A poly(meth)acrylimide foam, wherein the poly(meth)acrylimide foam is obtained via foaming of polymer according to the process of Claim 1.

Claim 6 (Previously Presented): A laminated material comprising a layer of a poly(meth)acrylimide foam according to Claim 5.

Claim 7 (Previously Presented): A vehicle, comprising:

the poly(meth)acrylimide foam according to Claim 5;

wherein said vehicle is selected from the group consisting of a motor vehicle, a rail vehicle, a watercraft, an aircraft or a spacecraft.

Claim 8 (Previously Presented): A machine component comprising the poly(meth)acrylimide foam according to Claim 5.

Claim 9 (Previously Presented): An antenna comprising the poly(meth)acrylimide foam according to Claim 5.

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Claim 10 (Previously Presented): An X-ray table comprising the

poly(meth)acrylimide foam according to Claim 5.

Claim 11 (Previously Presented): A loudspeaker comprising the

poly(meth)acrylimide foam according to Claim 5.

Claim 12 (Previously Presented): A pipe comprising the poly(meth)acrylimide foam

according to Claim 5.

Claim 13 (Previously Presented): The process for producing foamable crosslinked

polymers according to Claim 1, wherein said sheet is heat-conditioned and foamed.

Claims 14-19 (Canceled):

Claim 20 (New): The process according to Claim 1, wherein said mixture does not

comprise an insoluble nucleating agent.

Claim 21 (New): The polymer according to Claim 3, which does not comprise an

insoluble nucleating agent.

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